



# SPAN FORGING PVT. LTD.

Mfrs. of : Steel Forgings, CNC Turned Components, Centrifugal Casting of alloy steel

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Works : Village Tatarpur (Near Prithla) Teh. & Distt. Palwal

E-mail : spanforging@rediffmail.com

Ref. No. ....

## TEST REPORT

Date.....

Issued to: M/s SARA SAE(P)Ltd.Unit-II  
A/2Sara Ind.Estate Ltd.Chak-  
rata Road,Selaqui,Dehradun.

Report No.

1236

D.O.T.

22/3/2012

D.O.R

22/3/2012

Sample Description

DIA-56

Sample No.

7484

Heat No.

D-2129

## RESULTS

### Chemical Analysis

By Spectrometer



### Element

### %

Carbon	0.0579
Silicon	0.478
Sulphur	0.0093
Phosphorus	0.0253
Manganese	1.08
Nickel	10.39
Chromium	16.56
Molybdenum	2.08
Vanadium	0.0567
Copper	0.4
Niobium/Columbium	0.0211
Cobalt	0.204
Aluminium	0.008
Titanium	0.0263
Iron	68.50

Checked By

Arun Mishra



Authorised Signatory  
(Q.M / T.M )

1. The result listed refer only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
2. Total Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back.
3. The report can not be used as an evidence in a court of law.
4. Samples will be destroyed after 15 days.
5. Any Complaints about this report should be communicated within 7 days of issue of this report.
6. This report shall not be reproduced except in full, without the written permission of the Laboratory.
7. \*Not Covered under NABL Scope.



**MATERIAL TEST CERTIFICATE**

TC NO-KSL-3375/11-12	Date : 23.03.2012	Buyer:- M/S SARA SAE PVT LTD, DEHRADUN
Heat No. D-2129		Delivery: M/S GEE GEE INDUSTRIES, JALANDHAR
Specification:- AISI 316	P. O. No.: B/KES/0147/11 Dated 18.02.12	Invoice No: 1021 Date 23.03.2012

SL. NO.	ITEM DESCRIPTION & DRAWING NO.	QUANTITY NOS
1	Round Dia 56 MM	52
	Grade Color Code: Pink	
	Heat No. Color Code: Green	

**CHEMICAL COMPOSITION**

PERCENT	C	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Al	V	
AS PER SPEC.	Min. (%)					16.00	10.00	2.00					
	Max. (%)	0.080	2.00	1.00	0.045	0.030	18.00	14.00	3.00				
	Actual Value	0.060	1.21	0.47	0.033	0.014	16.64	10.18	2.07				

**HEAT TREATMENT**

Condition	Temp. C	Soaking Time Hrs.	Cooling Medium

**PHYSICAL PROPERTIES**

MECHANICAL PROPERTIES	Y.S. N/mm <sup>2</sup>	U.T.S. N/mm <sup>2</sup>	ELONG % GL mm	REDN IN AREA %	BEND	HARDNESS BHN	IMPACT (Joules)
AS PER SPEC.	Min.						
	Max.						
	Actual Value						

We hereby certify that the items mentioned above have been tested and inspected in our presence and are found to be in accordance with the drawing, specifications, and purchase order.

**REMARK**

The Steel has been made by Electric Furnace which is fully killed by Al & Si. It has fine grain structure.

Sign of the Inspecting Officer

Registered Office :  
G & JU - 26/1, Pitampura, Telefax : + (91) 11 27343847

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A - 350, Phase-I, Rilco Industrial Area,  
Sector 10, Noida - 201301, U.P. INDIA

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Sign of the Chief of Quality Control

*VS73W*

*KESRI STEELS LIMITED*